

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:51:04 ON 14 NOV 2001

=> fil reg; s polyethylene glycol/cn

L1 1 POLYETHYLENE GLYCOL/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS

RN 25322-68-3 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX  
NAME)

OTHER NAMES:

CN .alpha.,.omega.-Hydroxypoly(ethylene oxide)

CN .alpha.-Hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)

CN .alpha.-Hydro-.omega.-hydroxypoly(oxyethylene)

CN 1,2-Ethanediol, homopolymer

CN 16600

CN 1660S

CN Alkox

CN Alkox E 100

CN Alkox E 130

CN Alkox E 160

CN Alkox E 240

CN Alkox E 30

CN Alkox E 45

CN Alkox E 60

CN Alkox E 75

CN Alkox R 1000

CN Alkox R 15

CN Alkox R 150

CN Alkox R 400

CN Alkox SR

CN Antarox E 4000

CN Aquacide III

CN Aquaffin

CN Badimol

CN BDH 301

CN Bradsyn PEG

CN Breox 2000

CN Breox 20M

CN Breox 4000

CN Breox 550

CN Breox PEG 300

CN CAFO 154

CN Carbowax

CN Carbowax 100

CN Carbowax 1000

CN Carbowax 1350

CN Carbowax 14000

CN Carbowax 1500

CN Carbowax 1540

CN Carbowax 20

CN Carbowax 200

CN Carbowax 20000

CN Carbowax 25000

CN Carbowax 300

CN Carbowax 3350

CN Carbowax 400

CN Carbowax 4000

CN Carbowax 4500

CN Carbowax 4600

CN Carbowax 600

CN Polyethylene glycol

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for  
DISPLAY

AR 9002-90-8

DR 12676-74-3, 12770-93-3, 9081-95-2, 9085-02-3, 9085-03-4, 54510-95-1,  
125223-68-9, 54847-64-2, 59763-40-5, 64441-68-5, 64640-28-4, 133573-31-6,  
25104-58-9, 25609-81-8, 134919-43-0, 101677-86-5, 99264-61-6, 106186-24-7,  
112895-21-3, 114323-93-2, 50809-04-6, 50809-59-1, 119219-06-6, 60894-12-4,

61840-14-0, 37361-15-2, 112384-37-9, 70926-57-7, 75285-02-8, 75285-03-9,  
77986-38-0, 150872-82-5, 154394-38-4, 79964-26-4, 80341-53-3, 85399-22-0,  
85945-29-5, 88747-22-2, 34802-42-1, 107502-63-6, 107529-96-4, 116549-90-7,  
156948-19-5, 169046-53-1, 188924-03-0, 189154-62-9, 191743-71-2,  
201163-43-1, 206357-86-0, 221638-71-7, 225502-44-3, 270910-26-4,  
307928-07-0, 356055-70-4

MF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> H<sub>2</sub> O

CI PMS, COM

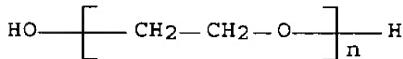
PCT Polyether

LC STN Files: ADISNEWS, AGRICOLA, ANAESTR, BIOBUSINESS, BIOSIS, BIOTECHNO,  
CA, CABAB, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*,  
DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,  
HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC,  
PDLCOM\*, PIRA, PROMT, RTECS\*, SPECINFO, TOXLIT, TULSA, ULIDAT, USAN,  
USPATFULL, VETU, VTB

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, TSCA\*\*, WHO

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



58986 REFERENCES IN FILE CA (1967 TO DATE)

15908 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

59106 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> sel name l1 1  
E1 THROUGH E353 ASSIGNED

=> fil hcapl

=> s l1 or e1-50

L2 60890 L1 OR ("ALPHA.-HYDRO-.OMEGA.-HYDROXYPOLY(OXY-1,2-ETHANEDIYL)"/B  
I OR ".ALPHA.-HYDRO-.OMEGA.-HYDROXYPOLY(OXYETHYLENE)"/BI OR  
.ALPHA.,.OMEGA.-HYDROXYPOLY(ETHYLENE OXIDE)"/BI OR "ALKOX E  
100"/BI OR "ALKOX E 130"/BI OR "ALKOX E 160"/BI OR "ALKOX E  
240"/BI OR "ALKOX E 30"/BI OR "ALKOX E 45"/BI OR "ALKOX E 60"/BI  
OR "ALKOX E 75"/BI OR "ALKOX R 1000"/BI OR "ALKOX R 15"/BI OR  
"ALKOX R 150"/BI OR "ALKOX R 400"/BI OR "ALKOX SR"/BI OR ALKOX/B  
I OR "ANTAROX E 4000"/BI OR "AQUACIDE III"/BI OR AQUAFFIN/BI OR  
BADIMOL/BI OR "BDH 301"/BI OR "BRADSYN PEG"/BI OR "BREOX PEG  
300"/BI OR "BREOX 20M"/BI OR "BREOX 2000"/BI OR "BREOX 4000"/BI  
OR "BREOX 550"/BI OR "CAFO 154"/BI OR "CARBOWAX E 9000"/BI OR  
"CARBOWAX 300"/BI OR "CARBOWAX 100"/BI OR "CARBOWAX 1000"/BI  
OR "CARBOWAX 1350"/BI OR "CARBOWAX 14000"/BI OR "CARBOWAX 1500"  
/BI OR "CARBOWAX 1540"/BI OR "CARBOWAX 20"/BI OR "CARBOWAX 200"/  
BI OR "CARBOWAX 20000"/BI OR "CARBOWAX 25000"/BI OR "CARBOWAX  
300"/BI OR "CARBOWAX 3350"/BI OR "CARBOWAX 400"/

=> s e51-150

L3 16412 (CARBOWAX/BI OR "CARTARETIN E"/BI OR "CBP 20"/BI OR "CERASOL  
250A"/BI OR "CHEMIOX E 20(C)"/BI OR DB-WAX/BI OR "DD 3002"/BI  
OR "DEACTIVATOR H"/BI OR "DECUFLUX RM 33"/BI OR "DESMOPHEN L  
1208"/BI OR "E 1000 (POLYGLYCOL)"/BI OR "E 1000"/BI OR "E 1450NF  
"/BI OR "E 200 (POLYGLYCOL)"/BI OR "E 200"/BI OR "E 240"/BI OR  
"E 30"/BI OR "E 3350"/BI OR "E 400"/BI OR "E 400NF"/BI OR "E  
4500 (POLYMER)"/BI OR "E 4500"/BI OR "E 600"/BI OR "E 6000"/BI  
OR "E 8000"/BI OR "EMKAPOL 150"/BI OR "EMKAPOL 200"/BI OR "EMKAP  
OL 4200"/BI OR "ENT 1000"/BI OR "ETHYLENE GLYCOL HOMOPOLYMER"/BI  
OR "ETHYLENE GLYCOL POLYMER"/BI OR "ETHYLENE OXIDE POLYMER"/BI  
OR "ETHYLENE OXIDE, HOMOPOLYMER"/BI OR "ETHYLENE POLYOXIDE"/BI  
OR "FELTMMASTER 15LF"/BI OR "FLOC 999"/BI OR "FOMREZ PEG 1000L"/B  
I OR FORLAX/BI OR FPR/BI OR "G 3350"/BI OR "GAFANOL E 200"/BI  
OR "GAFANOL E 300"/BI OR "GENOPLAST 200"/BI OR "GLIGOGUM 4000"/B  
I OR "GPE 1000"/BI OR "GPE 400"/BI OR "GR 4110G"/BI OR "HM 500"/  
BI OR "IW (DISPERSANT)"/BI OR IW/BI OR KLEANP

=> s e151-343

L4 96292 ("PE 2"/BI OR "PE 400"/BI OR "PE 4000"/BI OR "PE 68 (POLYOL)"/BI  
OR "PE 68"/BI OR "PEG (POLYGLYCOL)"/BI OR "PEG 100"/BI OR "PEG  
1000"/BI OR "PEG 10000"/BI OR "PEG 11000"/BI OR "PEG 115"/BI OR  
"PEG 12000"/BI OR "PEG 1450"/BI OR "PEG 1500"/BI OR "PEG 15000"/  
BI OR "PEG 2M"/BI OR "PEG 200"/BI OR "PEG 2000"/BI OR "PEG 20000"  
"/BI OR "PEG 300"/BI OR "PEG 3350"/BI OR "PEG 35"/BI OR "PEG  
4"/BI OR "PEG 400"/BI OR "PEG 4000"/BI OR "PEG 4000N"/BI OR  
"PEG 4600"/BI OR "PEG 5000"/BI OR "PEG 6"/BI OR "PEG 600"/BI OR  
"PEG 6000"/BI OR "PEG 6000P"/BI OR "PEG 6000S"/BI OR "PEG 7M"/BI  
OR "PEG 75"/BI OR "PEG 8000"/BI OR PEG/BI OR "PEGOL 300"/BI OR  
"PEO 1"/BI OR "PEO 10"/BI OR "PEO 100"/BI OR "PEO 15"/BI OR  
"PEO 16"/BI OR "PEO 18"/BI OR "PEO 27"/BI OR "PEO 3"/BI OR "PEO  
400"/BI OR "PEO 5000"/BI OR "PEO 750N"/BI OR "PEO 8"/BI OR PEO/B  
I OR PEOPA-A/BI OR "PLASTIGEN PR 8086"/BI OR "PLURACOL E 300"/BI  
OR "PLURACOL E 400"/BI OR "PLURACOL E 4000"/BI OR "PLURACOL E  
4600"/BI OR "PLURACOL E 600"/BI OR "PLURA

=> s 12 or 13 or 14  
L5 126983 L2 OR L3 OR L4

=> s ?spin? or epidur? or intrathecal  
504451 ?SPIN?  
1724 EPIDUR?  
3958 INTRATHECAL  
L6 506442 ?SPIN? OR EPIDUR? OR INTRATHECAL

=> s 15 (s) 16  
L7 1376 L5 (S) L6

=> s spinal cord injur?  
42975 SPINAL  
13 SPINALS  
42986 SPINAL  
(SPINAL OR SPINALS)  
47677 CORD  
8486 CORDS  
50084 CORD  
(CORD OR CORDS)  
93752 INJUR?  
L8 1703 SPINAL CORD INJUR?  
(SPINAL(W) CORD(W) INJUR?)

=> s 17 (s) 18  
L9 4 L7 (S) L8

=> d tot

L9 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2001 ACS  
AN 2001:459556 HCAPLUS  
TI Pegylated Brain-Derived Neurotrophic Factor Shows Improved Distribution  
into the Spinal Cord and Stimulates Locomotor Activity and Morphological  
Changes after Injury  
AU Ankeny, Daniel P.; McTigue, Dana M.; Guan, Zhen; Yan, Qiao; Kinstler,  
Olaf; Stokes, Bradford T.; Jakeman, Lyn B.  
CS Department of Physiology and Cell Biology, The Ohio State University,  
Columbus, OH, 43210, USA  
SO Exp. Neurol. (2001), 170(1), 85-100  
CODEN: EXNEAC; ISSN: 0014-4886  
PB Academic Press  
DT Journal  
LA English  
RE.CNT 79  
RE  
(1) Altar, C; Exp Neurol, 10.1006/exnr.1994.1182 1994, V130, P31 HCAPLUS  
(2) Anderson, K; J Comp Neurol 1995, V357, P296 HCAPLUS  
(5) Beck, T; J Cereb Blood Flow Metab 1994, V14, P689 HCAPLUS  
(7) Belcheva, N; Bioconjug Chem 1999, V10, P932 HCAPLUS  
(8) Binder, D; Trends Neurosci 2001, V24, P47 HCAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2001 ACS  
AN 2000:177753 HCAPLUS  
TI Functional recovery of paraplegic rats and motor axon regeneration in

their spinal cords by olfactory ensheathing glia  
AU Ramon-Cueto, Almudena; Cordero, M. Isabel; Santos-Benito, Fernando F.;  
Avila, Jesus  
CS Centro de Biología Molecular "Severo Ochoa" (CSIC-UAM) Facultad de  
Ciencias Universidad Autónoma de Madrid, Madrid, 28049, Spain  
SO Neuron (2000), 25(2), 425-435  
CODEN: NERNET; ISSN: 0896-6273  
PB Cell Press  
DT Journal  
LA English  
RE.CNT 56  
RE  
(5) Bovolenta, P; Prog Brain Res 1992, V94, P367 HCPLUS  
(6) Bregman, B; Curr Opin Neurobiol 1998, V8, P800 HCPLUS  
(7) Bregman, B; Exp Neurol 1998, V149, P13 HCPLUS  
(8) Bregman, B; Nature 1995, V378, P498 HCPLUS  
(9) Cassam, A; Neuroscience 1999, V88, P1275 HCPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 4 HCPLUS COPYRIGHT 2001 ACS  
AN 2000:51638 HCPLUS  
DN 132:203028  
TI Immediate recovery from spinal cord injury  
through molecular repair of nerve membranes with polyethylene  
glycol  
AU Borgens, Richard B.; Shi, Riyi  
CS Center for Paralysis Research, Department of Basic Medical Sciences,  
School of Veterinary Medicine, Purdue University, West Lafayette, IN,  
47907, USA  
SO FASEB J. (2000), 14(1), 27-35  
CODEN: FAJOC; ISSN: 0892-6638  
PB Federation of American Societies for Experimental Biology  
DT Journal  
LA English  
RE.CNT 39  
RE  
(1) Ahkong, Q; J Cell Sci 1987, V88, P389 HCPLUS  
(15) Davidson, R; Somat Cell Genet 1976, V2, P271 HCPLUS  
(18) Hannig, J; Int J Radiat Biol 1999, V75, P379 HCPLUS  
(20) Lee, J; Biochemistry 1997, V36, P6251 HCPLUS  
(22) Lee, R; Proc Natl Acad Sci USA 1992, V89, P4524 HCPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 4 HCPLUS COPYRIGHT 2001 ACS  
AN 1999:376637 HCPLUS  
DN 131:179700  
TI Acute repair of crushed guinea pig spinal cord by polyethylene glycol  
AU Shi, Riyi; Borgens, Richard B.  
CS Center for Paralysis Research, Department of Basic Medical Sciences,  
Purdue University, West Lafayette, IN, 47907, USA  
SO J. Neurophysiol. (1999), 81(5), 2406-2414  
CODEN: JONEA4; ISSN: 0022-3077  
PB American Physiological Society  
DT Journal  
LA English  
RE.CNT 30  
RE  
(1) Ahkong, Q; J Cell Sci 1987, V88, P389 HCPLUS  
(3) Bittner, G; Brain Res 1986, V367, P351 HCPLUS  
(5) Blight, A; Brain Res Bull 1989, V22, P47 HCPLUS  
(8) Borgens, R; Proc Natl Acad Sci USA 1980, V77, P1209 HCPLUS  
(9) Davidson, R; Somat Cell Genet 1976, V2, P271 HCPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s spinal cord  
42975 SPINAL  
13 SPINALS  
42986 SPINAL  
(SPINAL OR SPINALS)  
47677 CORD  
8486 CORDS  
50084 CORD

(CORD OR CORDS)  
L10 29051 SPINAL CORD  
(SPINAL(W) CORD)

=> s l10 (s) 17  
L11 11 L10 (S) L7

=> d tot

L11 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
AN 2001:459556 HCAPLUS  
TI Pegylated Brain-Derived Neurotrophic Factor Shows Improved Distribution into the Spinal Cord and Stimulates Locomotor Activity and Morphological Changes after Injury  
AU Ankeny, Daniel P.; McTigue, Dana M.; Guan, Zhen; Yan, Qiao; Kinstler, Olaf; Stokes, Bradford T.; Jakeman, Lyn B.  
CS Department of Physiology and Cell Biology, The Ohio State University, Columbus, OH, 43210, USA  
SO Exp. Neurol. (2001), 170(1), 85-100  
CODEN: EXNEAC; ISSN: 0014-4886  
PB Academic Press  
DT Journal  
LA English  
RE.CNT 79  
RE  
(1) Altar, C; Exp Neurol, 10.1006/exnr.1994.1182 1994, V130, P31 HCAPLUS  
(2) Anderson, K; J Comp Neurol 1995, V357, P296 HCAPLUS  
(5) Beck, T; J Cereb Blood Flow Metab 1994, V14, P689 HCAPLUS  
(7) Belcheva, N; Bioconjug Chem 1999, V10, P932 HCAPLUS  
(8) Binder, D; Trends Neurosci 2001, V24, P47 HCAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
AN 2000:780106 HCAPLUS  
DN 134:80539  
TI Comparative efficacies of terbinafine and fluconazole in treatment of experimental coccidioidal meningitis in a rabbit model  
AU Sorensen, Kevin N.; Sobel, Raymond A.; Clemons, Karl V.; Calderon, Leilani; Howell, Kimberley J.; Irani, Plomarz R.; Pappagianis, Demosthenes; Williams, Paul L.; Stevens, David A.  
CS Division of Infectious Diseases, Department of Medicine, Santa Clara Valley Medical Center, California Institute for Medical Research, San Jose, CA, 95128, USA  
SO Antimicrob. Agents Chemother. (2000), 44(11), 3087-3091  
CODEN: AMACQ; ISSN: 0066-4804  
PB American Society for Microbiology  
DT Journal  
LA English  
RE.CNT 18  
RE  
(1) Abdel-Rahman, S; Ann Pharmacother 1997, V31, P445 HCAPLUS  
(2) Dewsnap, D; Ann Intern Med 1996, V124, P305 HCAPLUS  
(3) Hostetler, J; Antimicrob Agents Chemother 1993, V37, P2224 HCAPLUS  
(4) Kan, V; Antimicrob Agents Chemother 1986, V30, P628 HCAPLUS  
(5) Levine, H; J Infect Dis 1975, V132, P407 HCAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
AN 2000:367588 HCAPLUS  
DN 133:99139  
TI Comparison of fluconazole and itraconazole in a rabbit model of coccidioidal meningitis  
AU Sorensen, Kevin N.; Sobel, Raymond A.; Clemons, Karl V.; Pappagianis, Demosthenes; Stevens, David A.; Williams, Paul L.  
CS Department of Medicine, Division of Infectious Diseases, Santa Clara Valley Medical Center, San Jose, CA, 95128, USA  
SO Antimicrob. Agents Chemother. (2000), 44(6), 1512-1517  
CODEN: AMACQ; ISSN: 0066-4804  
PB American Society for Microbiology  
DT Journal  
LA English  
RE.CNT 27  
RE

- (3) Clemons, K; Antimicrob Agents Chemother 1990, V34, P928 HCAPLUS  
(5) Dewsnap, D; Ann Intern Med 1996, V124, P305 HCAPLUS  
(9) Hostetler, J; Antimicrob Agents Chemother 1993, V37, P2224 HCAPLUS  
(11) Louie, A; Antimicrob Agents Chemother 1998, V42, P1512 HCAPLUS  
(12) Lutz, J; Antimicrob Agents Chemother 1997, V41, P1558 HCAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
AN 2000:177753 HCAPLUS  
TI Functional recovery of paraplegic rats and motor axon regeneration in their spinal cords by olfactory ensheathing glia  
AU Ramon-Cueto, Almudena; Cordero, M. Isabel; Santos-Benito, Fernando F.; Avila, Jesus  
CS Centro de Biología Molecular "Severo Ochoa" (CSIC-UAM) Facultad de Ciencias Universidad Autónoma de Madrid, Madrid, 28049, Spain  
SO Neuron (2000), 25(2), 425-435  
CODEN: NERNET; ISSN: 0896-6273  
PB Cell Press  
DT Journal  
LA English  
RE.CNT 56  
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(5) Bovolenta, P; Prog Brain Res 1992, V94, P367 HCAPLUS  
(6) Bregman, B; Curr Opin Neurobiol 1998, V8, P800 HCAPLUS  
(7) Bregman, B; Exp Neurol 1998, V149, P13 HCAPLUS  
(8) Bregman, B; Nature 1995, V378, P498 HCAPLUS  
(9) Cassam, A; Neuroscience 1999, V88, P1275 HCAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
AN 2000:51638 HCAPLUS  
DN 132:203028  
TI Immediate recovery from spinal cord injury through molecular repair of nerve membranes with polyethylene glycol  
AU Borgens, Richard B.; Shi, Riyi  
CS Center for Paralysis Research, Department of Basic Medical Sciences, School of Veterinary Medicine, Purdue University, West Lafayette, IN, 47907, USA  
SO FASEB J. (2000), 14(1), 27-35  
CODEN: FAJOC; ISSN: 0892-6638  
PB Federation of American Societies for Experimental Biology  
DT Journal  
LA English  
RE.CNT 39  
RE  
(1) Ahkong, Q; J Cell Sci 1987, V88, P389 HCAPLUS  
(15) Davidson, R; Somat Cell Genet 1976, V2, P271 HCAPLUS  
(18) Hannig, J; Int J Radiat Biol 1999, V75, P379 HCAPLUS  
(20) Lee, J; Biochemistry 1997, V36, P6251 HCAPLUS  
(22) Lee, R; Proc Natl Acad Sci USA 1992, V89, P4524 HCAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
AN 1999:376637 HCAPLUS  
DN 131:179700  
TI Acute repair of crushed guinea pig spinal cord by polyethylene glycol  
AU Shi, Riyi; Borgens, Richard B.  
CS Center for Paralysis Research, Department of Basic Medical Sciences, Purdue University, West Lafayette, IN, 47907, USA  
SO J. Neurophysiol. (1999), 81(5), 2406-2414  
CODEN: JONEA4; ISSN: 0022-3077  
PB American Physiological Society  
DT Journal  
LA English  
RE.CNT 30  
RE  
(1) Ahkong, Q; J Cell Sci 1987, V88, P389 HCAPLUS  
(3) Bittner, G; Brain Res 1986, V367, P351 HCAPLUS  
(5) Blight, A; Brain Res Bull 1989, V22, P47 HCAPLUS  
(8) Borgens, R; Proc Natl Acad Sci USA 1980, V77, P1209 HCAPLUS  
(9) Davidson, R; Somat Cell Genet 1976, V2, P271 HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 11 HCPLUS COPYRIGHT 2001 ACS  
AN 1995:582983 HCPLUS  
DN 123:31089  
TI Inhibition of tumor necrosis factor is protective against neurologic dysfunction after active immunization of Lewis rats with myelin basic protein  
AU Martin, David; Near, Stephanie L.; Bendele, Alison; Russell, Deborah A.  
CS Department Pharmacology, Synergen Inc., Boulder, CO, 80301, USA  
SO Exp. Neurol. (1995), 131(2), 221-8  
CODEN: EXNEAC; ISSN: 0014-4886  
DT Journal  
LA English

L11 ANSWER 8 OF 11 HCPLUS COPYRIGHT 2001 ACS  
AN 1983:416918 HCPLUS  
DN 99:16918  
TI Fastigial stimulation releases vasopressin in amounts that elevate arterial pressure  
AU Del Bo, Alberto; Sved, Alan F.; Reis, Donald J.  
CS Med. Coll., Cornell Univ., New York, NY, 10021, USA  
SO Am. J. Physiol. (1983), 244(5), H687-H694  
CODEN: AJPHAP; ISSN: 0002-9513  
DT Journal  
LA English

L11 ANSWER 9 OF 11 HCPLUS COPYRIGHT 2001 ACS  
AN 1978:187410 HCPLUS  
DN 88:187410  
TI The diminution of the myelin ethanolamine plasmalogen in brain of the Jimpy mouse and brain and spinal cord of the Quaking mouse as visualized by thin-layer chromatography  
AU Hack, M. H.; Helmy, F. M.  
CS Dep. Med., Tulane Univ., New Orleans, La., USA  
SO J. Chromatogr. (1978), 145(2), 307-10  
CODEN: JOCRAM; ISSN: 0021-9673  
DT Journal  
LA English

L11 ANSWER 10 OF 11 HCPLUS COPYRIGHT 2001 ACS  
AN 1956:9696 HCPLUS  
DN 50:9696  
OREF 50:2064g-h  
TI Spinal cord damage by Efocaine  
AU Clarke, Edwin; Morrison, Robert; Roberts, Hilda  
CS Postgrad. Med. School, London  
SO Lancet (1955), 268, 896-8  
DT Journal  
LA Unavailable

L11 ANSWER 11 OF 11 HCPLUS COPYRIGHT 2001 ACS  
AN 1953:68099 HCPLUS  
DN 47:68099  
OREF 47:11545h-i,11546a  
TI Return of cholinesterase activity in the rat after inhibition by organophosphorus compounds. I. Diethyl p-nitrophenylphosphate (E 600, paraoxon)  
AU Davison, A. N.  
CS Med. Research Council Unit in Toxicology, Carshalton, Surrey, UK  
SO Biochem. J. (1953), 54, 583-90  
DT Journal  
LA Unavailable

=> d ibib abs kwic 7-11

L11 ANSWER 7 OF 11 HCPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1995:582983 HCPLUS  
DOCUMENT NUMBER: 123:31089  
TITLE: Inhibition of tumor necrosis factor is protective against neurologic dysfunction after active immunization of Lewis rats with myelin basic protein

AUTHOR(S): Martin, David; Near, Stephanie L.; Bendele, Alison;  
Russell, Deborah A.  
CORPORATE SOURCE: Department Pharmacology, Synergen Inc., Boulder, CO,  
80301, USA  
SOURCE: Exp. Neurol. (1995), 131(2), 221-8  
CODEN: EXNEAC; ISSN: 0014-4886  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Increasing evidence indicates that the cytokines, tumor necrosis factor (TNF), interleukin-1, and/or interferon-.gamma., may play a crucial role in the pathogenesis of multiple sclerosis. Several reports demonstrated that inhibition of TNF is highly protective in exptl. allergic encephalomyelitis (EAE) when sensitization is accomplished by the passive transfer of myelin basic protein (MBP) sensitized lymphocytes. However, successful protection has not been reported in EAE that is induced by active immunization with MBP. We examd. the effects of a TNF inhibitor, dimeric polyethylene glycol linked form of the type I sol. receptor of TNF, PEG-(rsTNF-RI)2, on actively acquired EAE. Treatment with PEG-(rsTNF-RI)2 at 0.3-3 mg/kg every other day or every third day starting on Day 9 postimmunization with MBP during the effector phase of EAE significantly inhibited clin. signs in a dose-dependent manner. Histol. examm. of the central nervous system indicated that the administration of PEG-(rsTNF-RI)2 reduced, in part, the cellular infiltrate, particularly in the lumbar and sacral regions of the spinal cord. These studies suggest that TNF is a pivotal mediator of the inflammation resulting from the complete immune response induced by active immunization with MBP.

L11 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1983:416918 HCAPLUS  
DOCUMENT NUMBER: 99:16918  
TITLE: Fastigial stimulation releases vasopressin in amounts that elevate arterial pressure  
AUTHOR(S): Del Bo, Alberto; Sved, Alan F.; Reis, Donald J.  
CORPORATE SOURCE: Med. Coll., Cornell Univ., New York, NY, 10021, USA  
SOURCE: Am. J. Physiol. (1983), 244(5), H687-H694  
CODEN: AJPHAP; ISSN: 0002-9513  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Elec. stimulation of the cerebellar fastigial nucleus (FN) in anesthetized, paralyzed, and artificially ventilated rats resulted in a stimulus-locked elevation in arterial pressure (AP) and heart rate, the fastigial pressor response (FPR). Blockade of autonomic effectors by chemosympathectomy with 6-hydroxydopamine combined with adrenalectomy, or by spinal cord transection at C1, abolished the FPR but unmasked an elevation of AP with longer latency and duration, termed the residual FPR. The residual FPR was abolished by midbrain transection, blocked by administration of a specific antagonist of the vasopressor response to arginine vasopressin (AVP) [113-79-1], and was absent in homozygous and attenuated in heterozygous Brattleboro rats. FN stimulation elevated AVP 3-fold in intact rats and 7-fold in rats with combined chemosympathectomy and adrenalectomy. Stimulation of the cerebellar FN can release AVP. In the absence of sympathoadrenal effectors, the amt. so released is enhanced and capable of elevating AP.

L11 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1978:187410 HCAPLUS  
DOCUMENT NUMBER: 88:187410  
TITLE: The diminution of the myelin ethanolamine plasmalogen in brain of the Jimpy mouse and brain and spinal cord of the Quaking mouse as visualized by thin-layer chromatography  
AUTHOR(S): Hack, M. H.; Helmy, F. M.  
CORPORATE SOURCE: Dep. Med., Tulane Univ., New Orleans, La., USA  
SOURCE: J. Chromatogr. (1978), 145(2), 307-10  
CODEN: JOCRAM; ISSN: 0021-9673  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The phosphatides and glycolipids of the CHCl<sub>3</sub>-MeOH (2:1, vol./vol.) ext. of brains of mutant Jimpy mice and of brains and spinal cords of Quaking mice were analyzed chromatog. on Schleicher and Schuell F-1500 silica gel thin-layer plastic sheets with a CHCl<sub>3</sub>-EtOH-water (65:25:3) solvent

system. The myelin ethanolamine plasmalogen species PE-2 of brain increased progressively with increasing postnatal age in normal mice, was practically absent in 17-day-old Jimpy mice, and was even more diminished, in comparison to age-matched controls, in 40 or 50-day-old Quaking mice. The PE-2 deficit of the latter animals was even more striking in spinal cord exts. The amt. of ethanolamine plasmalogen species PE-1 was also diminished in the brain of Jimpy mutants in comparison with age-matched normal controls.

L11 ANSWER 10 OF 11 HCPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1956:9696 HCPLUS  
DOCUMENT NUMBER: 50:9696  
ORIGINAL REFERENCE NO.: 50:2064g-h  
TITLE: Spinal cord damage by Efocaine  
AUTHOR(S): Clarke, Edwin; Morrison, Robert; Roberts, Hilda  
CORPORATE SOURCE: Postgrad. Med. School, London  
SOURCE: Lancet (1955), 268, 896-8  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
AB Spinal cord damage by paravertebral injection of Efocaine (procaine 1%, procaine hydrochloride 0.25%, and butyl aminobenzoate 5% in polyethylene glycol of mol. wt. 300 2%, propylene glycol 78%, and water) is described.

L11 ANSWER 11 OF 11 HCPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1953:68099 HCPLUS  
DOCUMENT NUMBER: 47:68099  
ORIGINAL REFERENCE NO.: 47:11545h-i,11546a  
TITLE: Return of cholinesterase activity in the rat after inhibition by organophosphorus compounds. I. Diethyl p-nitrophenylphosphate (E 600, paraoxon)  
AUTHOR(S): Davison, A. N.  
CORPORATE SOURCE: Med. Research Council Unit in Toxicology, Carshalton, Surrey, UK  
SOURCE: Biochem. J. (1953), 54, 583-90  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
AB The return of cholinesterase activity in vivo after inhibition by organophosphorus compds. has been attributed to a resynthesis of new enzyme or to a phosphorylation of the enzyme. The rates of recovery of rat cholinesterases from inhibition by E 600 have been found to differ strikingly for pseudocholinesterases of brain and spinal cord, and other pseudocholinesterases. In the central nervous system the pseudo- and true cholinesterases recover at similar rates, but the reversal rates have revealed a distinction between the pseudocholinesterases of the central nervous system and of other tissues not otherwise detected. After inhibition by E 600 total recovery of enzyme activity (pseudocholinesterase) of various rat organs occurs in about a day both in vivo or in vitro, but the recovery of true cholinesterase is slow, about 60% in 4 days.

=> s spinal cord (a) (trauma or injur? or damag? or blow? or shock?)

42975 SPINAL  
13 SPINALS  
42986 SPINAL  
(SPINAL OR SPINALS)  
47677 CORD  
8486 CORDS  
50084 CORD  
(CORD OR CORDS)  
29051 SPINAL CORD  
(SPINAL (W) CORD)  
9469 TRAUMA  
187 TRAUMAS  
16 TRAUMATA  
9589 TRAUMA  
(TRAUMA OR TRAUMAS OR TRAUMATA)  
93752 INJUR?  
280856 DAMAG?  
80921 BLOW?  
105213 SHOCK?

L12 1972 SPINAL CORD (A) (TRAUMA OR INJUR? OR DAMAG? OR BLOW? OR SHOCK?)

=> s l12 and l7  
L13            5 L12 AND L7

=> s l13 not l11  
L14            0 L13 NOT L11

=> s l12 and l5  
L15            9 L12 AND L5

=> s l15 not l11  
L16            4 L15 NOT L11

=> d tot

L16 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2001 ACS  
AN 2001:731315 HCAPLUS  
DN 135:267237  
TI Cytokine antagonists for the treatment of localized disorders  
IN Tobinick, Edward L.  
PA USA  
SO U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U.S. 2001 16,195.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2001026801	A1	20011004	US 2001-841844	20010425
US 6015557	A	20000118	US 1999-275070	19990323
US 6177077	B1	20010123	US 1999-476643	19991231
US 2001016195	A1	20010823	US 2001-826976	20010405
PRAI US 1999-256388	B2	19990224		
US 1999-275070	A2	19990323		
US 1999-476643	A2	19991231		
US 2000-563651	A2	20000502		
US 2001-826976	A2	20010405		

L16 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2001 ACS  
AN 2001:380370 HCAPLUS  
DN 135:9995  
TI Pharmaceuticals containing sildenafil for treating male erectile dysfunction  
IN Vallabhaneni, Ramakrishna Rao  
PA Natco Pharma Ltd., India  
SO PCT Int. Appl., 19 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001035926	A2	20010525	WO 2000-IN105	20001024
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI IN 1999-MA1128	A	19991118		

L16 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2001 ACS  
AN 2001:25671 HCAPLUS  
DN 134:76448  
TI Guided development and support of hydrogel-cell compositions  
IN Vacanti, Charles A.; Vacanti, Joseph P.; Vacanti, Martin P.  
PA University of Massachusetts, USA; Children's Medical Center Corporation  
SO U.S., 21 pp., Cont.-in-part of U.S. Ser. No. 66,038.  
CODEN: USXXAM  
DT Patent  
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6171610	B1	20010109	US 1998-200033	19981125
EP 1076533	A1	20010221	EP 1999-921398	19990422
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI US 1998-66038	A2	19980424		
US 1998-200033	A	19981125		
WO 1999-US8471	W	19990422		

RE.CNT 20

RE

(3) Anon; WO 9206702 1992 HCAPLUS

(4) Anon; WO 9316687 1993 HCAPLUS

(5) Anon; WO 9324627 1993 HCAPLUS

(6) Anon; WO 9425079 1994 HCAPLUS

(7) Anon; WO 9425080 1994 HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:900787 HCAPLUS

DN 134:38871

TI Crystal structure of a recombinant human caspase-8, identification of substrate binding pocket and applications to drug design

IN Watt, William; Watenpaugh, Keith D.

PA Pharmacia and Upjohn Company, USA

SO PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000077184	A1	20001221	WO 2000-US15882	20000609
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI US 1999-138430	P	19990610		
US 1999-150294	P	19990820		

RE.CNT 9

RE

(1) Alnemri, S; WO 9735020 A 1997 HCAPLUS

(2) Blanchard, H; STRUCTURE (LONDON) V7(9), P1125 HCAPLUS

(5) Margolin, N; JOURNAL OF BIOLOGICAL CHEMISTRY 1997, V272(11), P7223 HCAPLUS

(6) Merck & Co Inc; WO 9731018 A 1997 HCAPLUS

(7) Muzio, M; CELL 1996, V85(6) HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d abs kwic 3

L16 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2001 ACS

AB The invention features a method for generating new tissue by obtaining a liq. hydrogel-cell compn. including a hydrogel and tissue precursor cells; delivering the liq. hydrogel-cell compn. into a permeable, biocompatible support structure; and allowing the liq. hydrogel-cell compn. to solidify within the support structure and the tissue precursor cells to grow and generate new tissue. The invention also features a tissue forming structure including a permeable, biocompatible support structure having a predetd. shape that corresponds to the shape of desired tissue; and a hydrogel-cell compn. at least partially filling the support structure, wherein the hydrogel-cell compn. includes a hydrogel and tissue precursor cells. The new tissue forming structure can be used in new methods to generate various tissues (e.g., to treat defective tissue) including new bone, cartilage, and nervous tissue such as spinal cord tissue. The invention also features new isolated nervous system stem cells. For example, adult rat spinal cord stem cells were suspended in culture medium

supplemented with Pluronic F127 and then used to permeate a mesh of poly(glycolic acid) (PGA) fibers. The PGA mesh held the Pluronic gel by capillary action and provided guidance for the growth of the neural stem cells once implanted into an animal.

IT Spinal cord  
(injury, repair; guided development and support of hydrogel-cell compns. for tissue generation)

IT 9003-01-4, Poly(acrylic acid) 9003-20-7, Poly(vinyl acetate)  
9005-35-0, Calcium alginate 25087-26-7, Poly(methacrylic acid)  
25751-21-7, Acrylic acid-methacrylic acid copolymer 26009-03-0,  
Poly(glycolic acid) 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)]  
26100-51-6, Poly(lactic acid) 26124-68-5, Poly(glycolic acid)  
26780-50-7, Polyglactin 106392-12-5, Polyoxyethylene-polyoxypropylene  
block copolymer 152865-13-9, Oxirane, polymer with  
1,2-ethanediamine and methyloxirane, block  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(guided development and support of hydrogel-cell compns. for tissue  
generation)

=> fil medlin capl biosis

=> s Depo medrol or methylprednisolone  
L17 22642 DEPO MEDROL OR METHYLPREDNISOLONE

=> s 16  
L18 1100399 L6

=> s 117 and 118  
L19 1661 L17 AND L18

=> s 117 (s) 118  
L20 1053 L17 (S) L18

=> s 11 or polyethylene glycol  
L21 133142 L1 OR POLYETHYLENE GLYCOL

=> s 120 (s) 121  
L22 3 L20 (S) L21

=> s depo medrol (s) 120  
L23 44 DEPO MEDROL (S) L20

=> dup remm 123  
ENTER REMOVE, IDENTIFY, ONLY, OR (?):rem  
PROCESSING COMPLETED FOR L23  
L24 36 DUP REM L23 REMM (8 DUPLICATES REMOVED)

=> focus  
PROCESSING COMPLETED FOR L24  
L25 36 FOCUS L24 1-

=> d ibib abs kwic 1-10

L25 ANSWER 1 OF 36 MEDLINE  
ACCESSION NUMBER: 77095992 MEDLINE  
DOCUMENT NUMBER: 77095992 PubMed ID: 1037000  
TITLE: Sclerosing spinal pachymeningitis. A complication  
of intrathecal administration of Depo-  
Medrol for multiple sclerosis.  
AUTHOR: Bernat J L; Sadowsky C H; Vincent F M; Nordgren R E;  
Margolis G  
SOURCE: JOURNAL OF NEUROLOGY, NEUROSURGERY AND PSYCHIATRY, (1976  
Nov) 39 (11) 1124-8.  
Journal code: JBB; 2985191R. ISSN: 0022-3050.  
PUB. COUNTRY: ENGLAND: United Kingdom  
Language: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 197703  
ENTRY DATE: Entered STN: 19900313  
Last Updated on STN: 19900313  
Entered Medline: 19770331

AB Reported complications of intrathecal steroid therapy include aseptic meningitis, infectious meningitis, and arachnoiditis. We report a case of sclerosing spinal pachymeningitis complicating the attempted intrathecal administration of Depo-Medrol for multiple sclerosis. The lesion is characterised by concentric laminar proliferation of neomembranes within the subdural space of the entire spinal cord and cauda equina, resulting from repeated episodes of injury and repair to the spinal dura mater by Depo-Medrol. There is clinical and laboratory evidence that Depo-Medrol produces meningeal irritation and that the vehicle is the necrotising fraction.

TI Sclerosing spinal pachymeningitis. A complication of intrathecal administration of Depo-Medrol for multiple sclerosis.

L25 ANSWER 2 OF 36 MEDLINE

ACCESSION NUMBER: 78125985 MEDLINE  
DOCUMENT NUMBER: 78125985 PubMed ID: 75775  
TITLE: Management of diskogenic pain using epidural and intrathecal steroids.  
AUTHOR: Brown F W  
SOURCE: CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, (1977 Nov-Dec) (129) 72-8.  
PUB. COUNTRY: United States  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 197805  
ENTRY DATE: Entered STN: 19900314  
Last Updated on STN: 19900314  
Entered Medline: 19780524

AB The use of methylprednisolone acetate (Depo-Medrol) injected by the epidural or intrathecal route for the relief of diskogenic back pain with or without radiculopathy is an adjunct to conservative management useful when conservative measures fail and surgical treatment is under consideration. This is especially true when symptoms have been present for only a few months. Corticosteroids injected in the same manner seem to have little effect on patients with symptoms persisting for periods longer than 3 months or in patients treated previously by surgical methods.

L25 ANSWER 3 OF 36 MEDLINE

ACCESSION NUMBER: 93181775 MEDLINE  
DOCUMENT NUMBER: 93181775 PubMed ID: 8441945  
TITLE: Intraspinal therapy using methylprednisolone acetate. Twenty-three years of clinical controversy.  
AUTHOR: Nelson D A  
CORPORATE SOURCE: Section of Neurology, Medical Center of Delaware, Wilmington.  
SOURCE: SPINE, (1993 Feb) 18 (2) 278-86.  
PUB. COUNTRY: United States  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199303  
ENTRY DATE: Entered STN: 19930416  
Last Updated on STN: 19930416  
Entered Medline: 19930330

AB The intraspinal use of methylprednisolone acetate (Depo-Medrol, Upjohn Company, Kalamazoo MI) began in 1960, followed 10 years later by reports of complications. In 1960, methylprednisolone acetate was first injected by the epidural route to treat low-back syndromes. Then in 1961, the intrathecal route was more widely used to treat arachnoiditis and multiple sclerosis. Epidural therapy again came into general use in 1980 for the treatment of the failed-back syndrome because intrathecal therapy was virtually abandoned after 10 years of spirited scientific controversy. Epidural steroid therapy is now employed extensively, and there are many sanguine reports of its efficacy in treating chronic pain secondary to the failed-back syndrome, but there

have also been reports of complications. This review was prompted by recent manufacturer warnings, as well as by an ongoing heated controversy in Australia regarding its use **epidurally**. During the last 30 years, one can define 5 instructive historical parallels between **intrathecal** and **epidural** steroid therapy, and this historicity points up several principles that should govern any further **epidural** therapy with **methylprednisolone acetate**. This critical chronologic review surveys neurosurgical use from 1960 to 1970, neurologic use from 1970 to 1980, and anesthesiology use from 1980 to present.

L25 ANSWER 4 OF 36 MEDLINE  
ACCESSION NUMBER: 88129249 MEDLINE  
DOCUMENT NUMBER: 88129249 PubMed ID: 3124393  
TITLE: Calcification and ossification of the spinal arachnoid after **intrathecal** administration of **Depo-Medrol**.  
AUTHOR: Carta F; Canu C; Datti R; Guiducci G; Pisani R; Silvestro C  
CORPORATE SOURCE: Department of Neurosurgery, University of Genova.  
SOURCE: ZENTRALBLATT FÜR NEUROCHIRURGIE, (1987) 48 (3) 256-61.  
JOURNAL code: Y6C; 0413646. ISSN: 0044-4251.  
PUB. COUNTRY: GERMANY, EAST: German Democratic Republic  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198803  
ENTRY DATE: Entered STN: 19900308  
Last Updated on STN: 19900308  
Entered Medline: 19880318  
AB A woman 38-year-old, suffering for about ten years from multiple sclerosis and treated with repeated therapy cycles of **intrathecal Depo-Medrol**, developed a spastic paraparesis at the lower limbs. A lumbar myelography was carried out, and a dorsal block was demonstrated. The patient underwent a dorsal laminectomy, and arachnoidal calcification and ossification was found, but the removal of the bone plaques was ineffectual in order to the subsequent course of the neurological troubles. The results of the histological study and chemical tests are reported, and the etiology and the pathogenesis are discussed on the basis of the pertinent literature.  
TI Calcification and ossification of the spinal arachnoid after **intrathecal** administration of **Depo-Medrol**.

L25 ANSWER 5 OF 36 MEDLINE  
ACCESSION NUMBER: 82103377 MEDLINE  
DOCUMENT NUMBER: 82103377 PubMed ID: 7033742  
TITLE: Management of lumbar nerve-root pain by **intrathecal** and **epidural** injections of depot **methylprednisolone acetate**.  
AUTHOR: Ryan M D; Taylor T K  
SOURCE: MEDICAL JOURNAL OF AUSTRALIA, (1981 Nov 14) 2 (10) 532-4.  
JOURNAL code: M26; 0400714. ISSN: 0025-729X.  
PUB. COUNTRY: Australia  
(CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198203  
ENTRY DATE: Entered STN: 19900317  
Last Updated on STN: 19900317  
Entered Medline: 19820322  
AB Sciatica is one of the most incapacitating and difficult to treat of all benign pains. This is a report of the results of using **epidural** and **intrathecal** corticosteroids in depot form, **methylprednisolone acetate** (**Depo-Medrol**), in 108 patients who presented with a clinical diagnosis of acute lumbar disc prolapse and nerve-root pain. There was a 75% response rate in patients with less than four weeks of symptoms, whereas in patients with more than six weeks of symptoms the rate dropped to 43%. Patients with a high level of protein in their cerebrospinal fluid appeared to have a higher response rate. The treatment is most likely to be effective when the patient is male, the duration of symptoms is less than four weeks, and the patient has irritant rather than compressive neuropathy.

L25 ANSWER 6 OF 36 MEDLINE

ACCESSION NUMBER: 91312259 MEDLINE  
DOCUMENT NUMBER: 91312259 PubMed ID: 1953887  
TITLE: Epidural use of methylprednisolone acetate (Depo-Medrol).  
COMMENT: Comment on: Med J Aust. 1991 Jun 17;154(12):854  
AUTHOR: Maxwell D C  
SOURCE: MEDICAL JOURNAL OF AUSTRALIA, (1991 Jul 15) 155 (2) 134.  
Journal code: M26; 0400714. ISSN: 0025-729X.  
PUB. COUNTRY: Australia  
Commentary  
Letter  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199108  
ENTRY DATE: Entered STN: 19910913  
Last Updated on STN: 19910913  
Entered Medline: 19910826  
TI Epidural use of methylprednisolone acetate (Depo-Medrol).

L25 ANSWER 7 OF 36 MEDLINE  
ACCESSION NUMBER: 91251827 MEDLINE  
DOCUMENT NUMBER: 91251827 PubMed ID: 2041521  
TITLE: Epidural use of methylprednisolone acetate (Depo-Medrol).  
COMMENT: Comment on: Med J Aust. 1991 Mar 18;154(6):428-9  
Comment in: Med J Aust. 1991 Jul 15;155(2):134  
AUTHOR: Anonymous  
SOURCE: MEDICAL JOURNAL OF AUSTRALIA, (1991 Jun 17) 154 (12) 854.  
Journal code: M26; 0400714. ISSN: 0025-729X.  
PUB. COUNTRY: Australia  
Commentary  
Letter  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199107  
ENTRY DATE: Entered STN: 19910728  
Last Updated on STN: 19910728  
Entered Medline: 19910710  
TI Epidural use of methylprednisolone acetate (Depo-Medrol).

L25 ANSWER 8 OF 36 MEDLINE  
ACCESSION NUMBER: 97396936 MEDLINE  
DOCUMENT NUMBER: 97396936 PubMed ID: 9253088  
TITLE: The pathologic effects of intrathecal betamethasone.  
AUTHOR: Latham J M; Fraser R D; Moore R J; Blumbergs P C; Bogduk N  
CORPORATE SOURCE: Department of Orthopaedic Surgery and Trauma, Royal Adelaide Hospital, Australia.  
SOURCE: SPINE, (1997 Jul 15) 22 (14) 1558-62.  
Journal code: UXK; 7610646. ISSN: 0362-2436.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199709  
ENTRY DATE: Entered STN: 19971013  
Last Updated on STN: 19971013  
Entered Medline: 19970929

AB STUDY DESIGN: The histopathologic effects of the intrathecal injection of betamethasone (Celestone Chronodose; Schering Corporation, Kenilworth, New Jersey) were assessed after the injection of various volumes of the preparation in 20 sheep. OBJECTIVE: To assess the safety of Celestone Chronodose injected into the intrathecal space.  
SUMMARY OF BACKGROUND DATA: The safety and efficacy of epidural steroid have received considerable attention in the medical literature in recent years. In Australia, reports of possible adverse effects of Depo-Medrol (methylprednisolone), including the complication of arachnoiditis, have been followed by statements from the manufacturers of commonly used steroid preparations recommending they should not be administered epidurally. Previous evidence suggests that arachnoiditis does not result from epidural administration of steroids, but may develop from the intrathecal

administration of Depo-Medrol. There are no reports concerning the safety of Celestone Chronodose (beta-methasone). METHODS: Twenty-three adult merino sheep had lumbar punctures performed at the L6-S1 level, and different volumes of Celestone Chronodose or normal saline were injected into the subarachnoid space. The animals were killed after 6 weeks, and the spinal cord, meninges, and nerve roots of the lumbar spine were examined for evidence of pathologic changes. RESULTS: There were no abnormalities demonstrated in three sheep injected with up to 18 ml of normal saline solution. Eleven sheep injected with 1 ml (5.7 mg) of Celestone Chronodose even when repeated at weekly intervals (five sheep, three injections) did not demonstrate pathologic changes. One of six sheep injected with 2 ml of Celestone Chronodose and all of three sheep injected with greater volumes showed histopathologic changes of arachnoiditis. CONCLUSIONS: Given that the volume of cerebrospinal fluid in the sheep is approximately one third of that in humans, this study suggests that small volumes (up to 2 ml) of Celestone Chronodose injected intrathecally in humans are unlikely to cause arachnoiditis, but that the risk of this complication increases substantially with higher doses.

L25 ANSWER 9 OF 36 MEDLINE  
ACCESSION NUMBER: 82057629 MEDLINE  
DOCUMENT NUMBER: 82057629 PubMed ID: 6895401  
TITLE: Intrathecal and epidural/extradural injection of Depo Medrol.  
AUTHOR: Jacobs D  
SOURCE: MEDICAL JOURNAL OF AUSTRALIA, (1981 Sep 19) 2 (6) 301.  
Journal code: M26; 0400714. ISSN: 0025-729X.  
PUB. COUNTRY: Australia  
LANGUAGE: Letter  
FILE SEGMENT: English  
Priority Journals  
ENTRY MONTH: 198201  
ENTRY DATE: Entered STN: 19900316  
Last Updated on STN: 19900316  
Entered Medline: 19820128  
TI Intrathecal and epidural/extradural injection of  
Depo Medrol.

L25 ANSWER 10 OF 36 MEDLINE  
ACCESSION NUMBER: 88268488 MEDLINE  
DOCUMENT NUMBER: 88268488 PubMed ID: 3291836  
TITLE: Dangers from methylprednisolone acetate therapy by intraspinal injection.  
COMMENT:  
Comment in: Arch Neurol. 1989 Jul;46(7):721-2  
Comment in: Arch Neurol. 1989 Jul;46(7):718-91  
Comment in: Arch Neurol. 1989 Jul;46(7):719-2  
Comment in: Arch Neurol. 1989 Nov;46(11):1167-8  
AUTHOR: Nelson D A  
CORPORATE SOURCE: Section of Neurology in Medicine, Medical Center of Delaware, Wilmington.  
SOURCE: ARCHIVES OF NEUROLOGY, (1988 Jul) 45 (7) 804-6. Ref: 45  
Journal code: 80K; 0372436. ISSN: 0003-9942.  
PUB. COUNTRY: United States  
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
FILE SEGMENT: English  
Abridged Index Medicus Journals; Priority Journals  
ENTRY MONTH: 198808  
ENTRY DATE: Entered STN: 19900308  
Last Updated on STN: 19900308  
Entered Medline: 19880805

AB Clinical trials first began in 1960 with methylprednisolone acetate (Depo-Medrol) administered intrathecally, in an attempt to treat both disk disease and multiple sclerosis. After a few reports of salubrious results, there began an outpouring of contradictory data, which continues in 1988. During this time span, researchers who cautiously tested the different theses of improvement began to publish serious warnings of many complications. For ten years prior to the intraspinal use of methylprednisolone acetate, basic scientists in anesthesiology and neurochemistry had published the following facts: (1) Methylprednisolone acetate's content of

polyethylene glycol raises the risks of using it near the central nervous system. (2) Deleterious effects follow the use of glycols when they are placed into or near the neuraxis. (3) Methylprednisolone acetate contains approximately 30 mg of polyethylene glycol per milliliter. (4) When that glycol, which is both alcohol and detergent, is injected intraspinally, sterile meningitis, arachnoiditis, or pachymeningitis will occur. It has also been recognized since the 1960s that the epidural space is not wholly separate from the subdural and/or subarachnoid space. Many thousands of arachnoid villi subtend all the membranes from the intrathecal space, and many of these end in the large epidural veins. Therefore, the various spaces and membranes are not only contiguous, but continuous. It follows that an injection of methylprednisolone acetate into the epidural space does not guarantee that it will remain isolated there. Finally, the inadvertency of injections by the epidural route occurs with the following frequency: 40% of injections can be inadvertently made into interspinous ligaments, and 2.5% into the subarachnoid space.

=> d ibib abs kwic 11-36

L25 ANSWER 11 OF 36 MEDLINE  
ACCESSION NUMBER: 80110795 MEDLINE  
DOCUMENT NUMBER: 80110795 PubMed ID: 6153292  
TITLE: The response to epidural steroid injections in chronic dorsal root pain.  
AUTHOR: Forrest J B  
SOURCE: CANADIAN ANAESTHETISTS SOCIETY JOURNAL, (1980 Jan) 27 (1)  
40-6.  
PUB. COUNTRY: Journal code: CG7; 0371163. ISSN: 0008-2856.  
Canada  
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)  
English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198004  
ENTRY DATE: Entered STN: 19900315  
Last Updated on STN: 19900315  
Entered Medline: 19800417

AB Thirty-seven patients with long-standing post-herpetic neuralgia and 27 with post-traumatic neuralgia (PTN) were treated with three epidural injections each of methylprednisolone acetate (Depo Medrol) given at weekly intervals. Differential subarachnoid or epidural block was done in all patients and placebo responders were excluded from the study. Mean age, duration of symptoms, and pain intensity measured by visual analogue scale were similar in both groups. Visual analogue scale ratings were reduced one month after treatments from both groups. Visual analogue scale ratings were reduced one month after treatments from pretreatment values of 84.4 and 78.7 to 9.6 and 15.2 in the post-herpetic and post-traumatic groups respectively, and were further reduced to 4.6 and 11.6 respectively after one year when 89 per cent of patients in the post-herpetic group and 59 per cent of patients in the post-traumatic group were completely pain free. Side effects were minor in all cases. It is suggested that this is the treatment of choice in post-herpetic and post-traumatic neuralgia where steroid administration is not contraindicated.

L25 ANSWER 12 OF 36 MEDLINE  
ACCESSION NUMBER: 2001238414 MEDLINE  
DOCUMENT NUMBER: 21232100 PubMed ID: 11334291  
TITLE: Microcatheterization of the cervical epidural space via lumbar puncture: technical note.  
AUTHOR: Amar A P; Wang M Y; Larsen D W; Teitelbaum G P  
CORPORATE SOURCE: Department of Neurological Surgery, Keck School of Medicine, University of Southern California, Los Angeles 90033-1029, USA.. amar@aya.yale.edu  
SOURCE: NEUROSURGERY, (2001 May) 48 (5) 1183-7.  
Journal code: NZL; 7802914. ISSN: 0148-396X.  
PUB. COUNTRY: United States  
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)  
English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200109  
ENTRY DATE: Entered STN: 20010917

Last Updated on STN: 20010917  
Entered Medline: 20010913

AB OBJECTIVE: Deposition of opiates, corticosteroids, or local anesthetics into the epidural space is useful for the management of painful maladies of the cervical and thoracic spine. We describe a novel technique for epidural medication delivery via an angiographic microcatheter inserted at or below the conus and advanced cephalad under fluoroscopic guidance. Unlike commercial kits used by anesthesiologists, this method uses a radiopaque catheter that can be precisely targeted to the levels of interest. The hazards of direct puncture, such as "wet tap" or injury to the cervical cord, are minimized. METHODS: An 18-gauge Tuohy needle is inserted into the lumbar epidural space. A 2.3-French microcatheter and a 0.018-inch steerable guidewire are then introduced through the lumen of the needle. The catheter is fluoroscopically advanced to the cervical epidural space, where Depo-Medrol (Pharmacia & Upjohn, Kalamazoo, MI) is administered. As the catheter is withdrawn, additional corticosteroid can be delivered to the thoracic epidural space, together with long-acting morphine compounds or local anesthetics. Regional pressures within the epidural space and other physiological parameters can be measured, and the local microenvironment can be sampled. RESULTS: To date, we have performed 16 procedures for 13 patients. All patients reported improvement, of varying extent and duration. There have been no complications. CONCLUSION: Our system of accessing the epidural space has many advantages, compared with direct puncture and commercially available kits. It provides a safe means of delivering epidural medication to multiple spinal levels and permits measurement of physiological variables that may be useful in the diagnosis and treatment of cervical and thoracic spine disease.

L25 ANSWER 13 OF 36 MEDLINE

ACCESSION NUMBER: 93163885 MEDLINE  
DOCUMENT NUMBER: 93163885 PubMed ID: 8433138  
TITLE: The perioperative use of corticosteroids and bupivacaine in the management of lumbar disc disease.  
AUTHOR: Glasser R S; Knego R S; Delashaw J B; Fessler R G  
CORPORATE SOURCE: Department of Neurosurgery, University of Florida, Gainesville.  
SOURCE: JOURNAL OF NEUROSURGERY, (1993 Mar) 78 (3) 383-7.  
PUB. COUNTRY: Journal code: JD3; 0253357. ISSN: 0022-3085.  
LANGUAGE: United States  
FILE SEGMENT: Journal; Article; (JOURNAL ARTICLE)  
ENTRY MONTH: English  
199303  
ENTRY DATE: Entered STN: 19930402  
Last Updated on STN: 19930402  
Entered Medline: 19930317

AB The introduction of microdiscectomy to lumbar spine surgery has resulted in a significant decrease in postoperative pain and length of hospital stay. Intraoperative application of long-acting local anesthetic agents has been used for many general and neurosurgical procedures for the management of postoperative pain. In addition, many surgeons routinely use intraoperative corticosteroids during lumbar discectomy to reduce traumatic nerve root inflammation. However, the efficacy of intraoperative long-acting local anesthetic agents and corticosteroids for reduction of postoperative discomfort has not been reported for lumbar discectomy. This study evaluated 32 patients at a university-based Veterans Administration hospital undergoing lumbar microdiscectomy. All 32 patients presented with radicular symptoms and had radiographic confirmation of a herniated nucleus pulposus. These patients were divided into three groups. Group 1 (12 patients) received 160 mg intramuscular Depo-Medrol (methylprednisolone acetate) and 250 mg intravenous Solu-Medrol (methyl-prednisolone sodium succinate) at the start of the operation. A macerated fat graft soaked in 80 mg Depo-Medrol was placed over the affected nerve root following discectomy. In addition, 30 ml of 0.25% bupivacaine was infiltrated into the paraspinal musculature at skin incision and during closure. Group 2 (10 patients) received 30 ml of 0.25% bupivacaine infiltrated into the paraspinal musculature at skin incision and at closure. In this group of patients, a saline-soaked fat graft was placed over the affected nerve root. Group 3 (10 patients) acted as a control group, undergoing lumbar microdiscectomy without corticosteroids or bupivacaine. Patients

receiving bupivacaine and corticosteroids (Group 1) had a statistically significantly shorter hospital stay (1.4 days) compared to the control group (4.0 days) ( $p = 0.0004$ , Mann-Whitney U-test). Patients in Group 1 required less postoperative narcotic analgesia than the other groups. Finally, a larger percentage of patients in Group 1 reported complete relief of back and radicular pain on postoperative Day 1 compared to other groups. Postoperative complications and functional outcome were not different between the groups. These results indicate that the combination of long-acting anesthetic agents and corticosteroids can reduce postoperative discomfort and subsequently the length of postoperative hospital stay.

L25 ANSWER 14 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1982:254658 BIOSIS

DOCUMENT NUMBER: BA74:27138

TITLE: MANAGEMENT OF LUMBAR NERVE ROOT PAIN BY INTRA THECAL AND EPIDURAL INJECTIONS OF DEPOT METHYL PREDNISOLONE ACETATE.

AUTHOR(S): RYAN M D; TAYLOR T K F

CORPORATE SOURCE: DEP. ORTHOPEDICS TRAUMATIC SURGERY, UNIV. SYDNEY ROYAL NORTH SHORE HOSP. SYDNEY, ST. LEONARDS, NSW 2065.

SOURCE: MED J AUST, (1981 (RECD 1982)) 68-2 (10), 532-534.  
CODEN: MJAUAJ. ISSN: 0025-729X.

FILE SEGMENT: BA; OLD

LANGUAGE: English

AB Sciatica is 1 of the most incapacitating and difficult to treat of all benign pains. Epidural and intrathecal corticosteroids were used in depot form, methylprednisolone acetate (Depo-Medrol), in 108 patients who presented with a clinical diagnosis of acute lumbar disc prolapse and nerve-root pain. There was a 75% response rate in patients with less than 4 wk of symptoms, whereas in patients with more than 6 wk of symptoms the rate dropped to 43%. Patients with a high level of protein in their CSF appeared to have a higher response rate. The treatment is most likely to be effective when the patient is male, the duration of symptoms is less than 4 wk and the patient has irritant rather than compressive neuropathy.

IT Miscellaneous Descriptors

HUMAN DEPO-MEDROL ANALGESIC ANTIINFLAMMATORY  
HORMONE-DRUG SCIATICA LUMBAR DISC PROLAPSE CEREBRO SPINAL  
FLUID IRRITANT NEUROPATHY COMPRESSIVE NEUROPATHY PHARMACODYNAMICS

L25 ANSWER 15 OF 36 MEDLINE

ACCESSION NUMBER: 87065426 MEDLINE

DOCUMENT NUMBER: 87065426 PubMed ID: 3537827

TITLE: [Treatment of sciatica with injection of hydrocortisone into the sacral hiatus].

Leczenie rwy kulszowej wstrzykiwaniem hydrokortyzonu do rozworu krzyzowego.

AUTHOR: Matyjek J; Lubinski I

SOURCE: NEUROLOGIA I NEUROCHIRURGIA POLSKA, (1986 May-Jun) 20 (3)  
218-21.

JOURNAL CODE: NYF; 0101265. ISSN: 0028-3843.

PUB. COUNTRY: Poland

(CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: Polish

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198701

ENTRY DATE: Entered STN: 19900302

Last Updated on STN: 19900302

Entered Medline: 19870116

AB A group of 305 patients was treated with injections of corticosteroids into the epidural space of the sacral canal through the sacral hiatus and recumbent position on hard surface. The injections were done every second day giving seven times hydrocortisone acetate 0.025 g and as the last injection Depo-Medrol 0.04 g (Upjohn) was administered. The control group comprised 324 cases treated by various other methods. The assessment of the results was based on two criteria: duration of hospital stay, and percent of patients referred for surgical treatment. In the control group the duration of hospital stay was 20 days, and 16.1% of patients were referred for surgical treatment. In the studied group these values were 17.5 days and 5.2%. Conclusion. In acute ischalgia administration of hydrocortisone and depo-medrol into the epidural space through the sacral hiatus and lying on hard

surface shorten the duration of strong pain and reduce the indications to surgical intervention.

L25 ANSWER 16 OF 36 MEDLINE

ACCESSION NUMBER: 92199612 MEDLINE  
DOCUMENT NUMBER: 92199612 PubMed ID: 2134443  
TITLE: Benefits of epidural methylprednisolone in a unilateral lumbar discectomy: a matched controlled study.  
COMMENT: Comment in: J Spinal Disord. 1991 Sep;4(3):379  
AUTHOR: Davis R; Emmons S E  
CORPORATE SOURCE: Section of Neurosurgery, Kennebec Valley Medical Center, Augusta, Maine.  
SOURCE: JOURNAL OF SPINAL DISORDERS, (1990 Dec) 3 (4) 299-306; discussion 307. Ref: 27  
Journal code: BEQ; 8904842. ISSN: 0895-0385.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199204  
ENTRY DATE: Entered STN: 19920509  
Last Updated on STN: 19920509  
Entered Medline: 19920430

AB The effects of instilling methylprednisolone acetate (MP) (Depo-Medrol) onto the exposed nerve root during a unilateral lumbar laminotomy (either L4 or L5) for disc excision was studied in 43 patients (primary: 35, repeated procedure: 8). The results were compared with two similarly matched control groups without the steroid drug. All 86 patients preoperatively experienced radicular pain to the calf, and were operated on by one surgeon. Four parameters, studied during the postoperative hospital stay, were compared between the control and MP series. The MP (primary/repeat) groups' (a) stay was reduced by 37/40%, respectively; (b) need for strong narcotic drugs was decreased by 64/70%; (c) need for milder pain medication was decreased by 49/72%; and (d) need for spasm medication was reduced by 77/59%. The paired t test indicated that there is a statistical difference between the MP and control groups' results because of the use of MP, with confidence levels of 0.9927-0.9999 in the primary group, and 0.9806-0.9913 for three of the four parameters in the repeat group. Intraoperative application of epidural steroid drugs such as MP, in a unilateral low-lumbar discectomy, leads to a shorter hospital stay because of less pain and spasm.

L25 ANSWER 17 OF 36 MEDLINE

ACCESSION NUMBER: 91295826 MEDLINE  
DOCUMENT NUMBER: 91295826 PubMed ID: 1772484  
TITLE: Depo-Medrol and myelographic arachnoiditis.  
COMMENT: Comment in: Med J Aust. 1991 Sep 16;155(6):421-2  
AUTHOR: Johnson A; Ryan M D; Roche J  
CORPORATE SOURCE: Royal North Shore Hospital, St Leonards, NSW.  
SOURCE: MEDICAL JOURNAL OF AUSTRALIA, (1991 Jul 1) 155 (1) 18-20.  
Journal code: M26; 0400714. ISSN: 0025-729X.  
PUB. COUNTRY: Australia  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199108  
ENTRY DATE: Entered STN: 19910901  
Last Updated on STN: 19910901  
Entered Medline: 19910815

AB OBJECTIVE: This study was undertaken to see if patients who had a radiological diagnosis of arachnoiditis attributed to methylprednisolone acetate (Depo-Medrol, Upjohn Pty Limited) had the clinical syndrome of arachnoiditis. DESIGN: An attempt was made to review all patients, reported by Roche in 1984 with a radiological diagnosis of corticosteroid-induced arachnoiditis, by taking a detailed history and performing a physical examination. SETTING: The Department of Orthopaedics and Traumatic Surgery, The University of Sydney, The Royal North Shore Hospital, Sydney. RESULTS: Of the 18 patients reported by Roche 15 were located and participated in this study. The clinical syndrome of arachnoiditis was defined as a constant burning

pain in the back and legs, impotence, marked limitation of spinal motion, alteration of sensation and power in the legs, and a need for regular analgesia. Three of the 15 patients had the clinical syndrome of arachnoiditis. The grade of radiological change was unrelated to the severity of symptoms. The details of doses and precise sites of administration were unavailable for the severely affected individuals.  
CONCLUSIONS: The absence of any other apparent cause for their symptoms implies that Depo-Medrol should not be used in or about the thecal sac.

L25 ANSWER 18 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1982:159908 BIOSIS

DOCUMENT NUMBER: BA73:19892

TITLE: PRELIMINARY EVALUATION OF THE THERAPEUTIC VALUE OF DEPO-MEDROL ADMINISTERED EXTRADURALLY IN LUMBAR DISCOPATHY.

AUTHOR(S): GDAKOWICZ B

CORPORATE SOURCE: SZPITAL KW MO, JAGIELLONSKA 44, 70-382 SZCZECIN.

SOURCE: WIAD LEK, (1980 (RECD 1981)) 33 (20), 1617-1620.

CODEN: WILEAR. ISSN: 0043-5147.

FILE SEGMENT: BA; OLD

LANGUAGE: Polish

AB Therapeutic results were evaluated in 62 patients with lumbar discopathy treated by extradural injections of depo-medrol. One blockade was performed injecting 60 mg of the drug at the level of the damaged nerve root which was recognized by radiculography using metrizamide contrast medium. Disappearance of pain was evaluated as a very good result. This very good result was obtained in 31 cases, good in 15 and slight in 11 cases. No improvement was obtained in multilevel disc prolapse, in cases of pain after disc operation, or varices in the spinal canal. Depo-medrol acts most effectively and most rapidly against pain in cases of lumbar disc prolapse or bulging on condition that the drug is injected at the level and on the side of nerve-root compressed by the prolapsed disc.

L25 ANSWER 19 OF 36 MEDLINE

ACCESSION NUMBER: 92248262 MEDLINE

DOCUMENT NUMBER: 92248262 PubMed ID: 1533555

TITLE: Intrathecal Depo-Medrol: a literature review.

AUTHOR: Wilkinson H A

CORPORATE SOURCE: University of Massachusetts Medical Center, Worcester 01655.

SOURCE: CLINICAL JOURNAL OF PAIN, (1992 Mar) 8 (1) 49-56; discussion 57-8. Ref: 75  
Journal code: BEG; 8507389. ISSN: 0749-8047.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199206

ENTRY DATE: Entered STN: 19920619  
Last Updated on STN: 19920619  
Entered Medline: 19920610

AB Intrathecal methylprednisolone acetate (IT-MPA) treatments have been reported to be beneficial and safe for the treatment of low back problems and especially "failed back" problems, which include adhesive arachnoiditis. Other reports, however, have stressed the potential dangers of this treatment and have advised against its use. Many of these papers implicate the propylene glycol included in the methyl-prednisolone as being potentially harmful. Since the literature is rather extensive and clearly conflicting, it is difficult for those who treat patients with "failed back" problems to ascertain the risk/benefit ratio of this form of treatment, so a literature review and analysis has been undertaken. Published literature clearly attests to the usefulness and general safety of IT-MPA when used within certain limits. Although several studies implicate IT-MPA as a potential cause of arachnoiditis or other neurologic injury, most of the evidence is circumstantial and most complications followed multiple, large-dose, or frequent injections.

TI Intrathecal Depo-Medrol: a literature review.

L25 ANSWER 20 OF 36 MEDLINE  
ACCESSION NUMBER: 85036000 MEDLINE  
DOCUMENT NUMBER: 85036000 PubMed ID: 6238228  
TITLE: Epidural Depo-Medrol  
revisited.  
AUTHOR: Sekel R  
SOURCE: MEDICAL JOURNAL OF AUSTRALIA, (1984 Nov 10) 141 (10) 688.  
Journal code: M26; 0400714. ISSN: 0025-729X.  
PUB. COUNTRY: Australia  
Letter  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198412  
ENTRY DATE: Entered STN: 19900320  
Last Updated on STN: 19900320  
Entered Medline: 19841210  
TI Epidural Depo-Medrol revisited.

L25 ANSWER 21 OF 36 MEDLINE  
ACCESSION NUMBER: 75138748 MEDLINE  
DOCUMENT NUMBER: 75138748 PubMed ID: 1121415  
TITLE: The experimental contusion injury of the spinal cord in sheep.  
AUTHOR: Yeo J D; Payne W; Hinwood B; Kidman A D  
SOURCE: PARAPLEGIA, (1975 Feb) 12 (4) 279-98.  
Journal code: OQT; 2985038R. ISSN: 0031-1758.  
PUB. COUNTRY: SCOTLAND: United Kingdom  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 197506  
ENTRY DATE: Entered STN: 19900310  
Last Updated on STN: 19900310  
Entered Medline: 19750625

AB The validity of reproduction of the controlled contusion injury to the spinal cord in the experimental animal is questioned. The dynamic pathology involving the microvasculature within the first two hours is illustrated using light microscopy. After 15-30 minutes swelling of axons and disruption of myelin sheaths become evident in most areas of white matter. After four hours microcysts have formed in the columns of white matter and are evidence of irreversible damage. Swelling of the cord following injury results from congestion, extravasation and intracellular swelling of neurones, rather than from any demonstrable increase in extracellular fluid. Oedema was only demonstrated with perfusion fixation. Isotope and contrast myelography were compared in the identification of the degree and extent of spinal cord swelling. Significant improvement in motor power was found in a group of paraplegic sheep treated with alpha-methyl paratyrosine. There was no significant improvement in the degree of recovery of motor power or sensation in those animals treated with intrathecal methyl prednisolone (Depo-Medrol). The histopathology in the crushed spinal cord tissue of the treated and untreated animals at various intervals of time was compared. Some possible explanations for the different patterns of clinical recovery in the treated animals are discussed.

L25 ANSWER 22 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS  
ACCESSION NUMBER: 1996:353061 BIOSIS  
DOCUMENT NUMBER: PREV199699075417  
TITLE: The effect of chronic epidural Depo-Medrol on the hypothalamic-pituitary-adrenal axis.  
AUTHOR(S): Mathieson, Angela L.; Intrater, Howard; Cruickshank, Lionel; Duke, P. C.; Ong, B. Y.; Woo, Vincent; Schimnowski, Donna; Trosky, Sharon; Dalton, Linda  
CORPORATE SOURCE: Dep. Anesthesia, Univ. Manit., Health Sci. Cent., LB315, 60 Pearl Street, Winnipeg, MB R3E 1X2 Canada  
SOURCE: Canadian Journal of Anaesthesia, (1996) Vol. 43, No. 5 PART 2, pp. A17.  
Meeting Info.: Annual Meeting of the Canadian Anaesthetists' Society Montreal, Quebec, Canada June 14-18, 1996  
ISSN: 0832-610X.  
DOCUMENT TYPE: Conference

LANGUAGE: English  
TI The effect of chronic epidural Depo-Medrol  
on the hypothalamic-pituitary-adrenal axis.

L25 ANSWER 23 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS  
ACCESSION NUMBER: 1990:8015 BIOSIS  
DOCUMENT NUMBER: BA89:8015  
TITLE: ANALYSIS OF EFFECTIVENESS OF THE TREATMENT OF SEVERE CASES  
OF ISCHIALGIA OF RADICULAR ORIGIN WITH INTRATHECAL  
DEPO MEDROL ADMINISTRATION.  
AUTHOR(S): NIESYT M; MOSKAL J  
CORPORATE SOURCE: UL. WESOLA 12. 34-300 ZYWIEC.  
SOURCE: WIAD LEK, (1988) 41 (23), 1575-1578.  
CODEN: WILEAR. ISSN: 0043-5147.  
FILE SEGMENT: BA; OLD  
LANGUAGE: Polish  
AB The analysis is presented of the therapeutic results in 30 patients of the neurology department of the Specialist Municipal Hospital Stalownik in Bielsko-Biala who were treated for severe sciatic pains of radicular origin caused by intervertebral sisc lesions. The patients received Depo-Medrol intrathecally, and the effects and improvement onset were evaluated in relation to previous therapeutic methods used in these patients. Depo-Medrol intrathecally is a very effective therapeutic method in sciatic pains of particular severity. The method shortened significantly the duration of treatment. No complications were observed.  
TI ANALYSIS OF EFFECTIVENESS OF THE TREATMENT OF SEVERE CASES OF ISCHIALGIA  
OF RADICULAR ORIGIN WITH INTRATHECAL DEPO  
MEDROL ADMINISTRATION.

L25 ANSWER 24 OF 36 MEDLINE  
ACCESSION NUMBER: 89348189 MEDLINE  
DOCUMENT NUMBER: 89348189 PubMed ID: 2669351  
TITLE: [Analysis of the effectiveness of treating severe cases of sciatica of radicular origin by intrathecal administration of Depo-Medrol].  
Analiza skutecnosci leczenia ciezkich przypadkow rwy kulszowej korzeniowej dokanalowym podaniem Depo-Medrolu.  
AUTHOR: Niesyty M; Moskal J  
SOURCE: WIADOMOSCI LEKARSkie, (1989 Dec 1) 41 (23) 1575-8.  
Journal code: XOA; 9705467. ISSN: 0043-5147.  
PUB. COUNTRY: Poland  
(CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: Polish  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198909  
ENTRY DATE: Entered STN: 19900309  
Last Updated on STN: 20000303  
Entered Medline: 19890920  
TI [Analysis of the effectiveness of treating severe cases of sciatica of radicular origin by intrathecal administration of Depo-Medrol].  
Analiza skutecnosci leczenia ciezkich przypadkow rwy kulszowej korzeniowej dokanalowym podaniem Depo-Medrolu.

L25 ANSWER 25 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS  
ACCESSION NUMBER: 1987:204550 BIOSIS  
DOCUMENT NUMBER: BR32:100927  
TITLE: EPIDURAL MORPHINE AND DEPO  
MEDROL AN EFFECTIVE NONINVASIVE THERAPY FOR  
RECURRENT LOW BACK PAIN.  
AUTHOR(S): COHN M L; HUNTINGTON C T; MACHADO A F; COHN M  
CORPORATE SOURCE: PAIN TREATMENT CENTER, DEP. ANESTHESIOL., KING/DREW MED.  
CENTER, LOS ANGLES, CALIF. 90059, USA.  
SOURCE: ANNUAL MEETING OF THE INTERNATIONAL SOCIETY FOR THE STUDY  
OF THE LUMBAR SPINE, DALLAS, TEXAS, USA, MAY 29-JUNE 2,  
1986. ORTHOP TRANS. (1986 (RECD 1987)) 10 (3), 534.  
CODEN: ORTTDM.  
DOCUMENT TYPE: Conference  
FILE SEGMENT: BR; OLD  
LANGUAGE: English  
TI EPIDURAL MORPHINE AND DEPO MEDROL AN  
EFFECTIVE NONINVASIVE THERAPY FOR RECURRENT LOW BACK PAIN.

L25 ANSWER 26 OF 36 MEDLINE  
ACCESSION NUMBER: 94259986 MEDLINE  
DOCUMENT NUMBER: 94259986 PubMed ID: 8201143  
TITLE: Caudal epidural blocks for elderly patients with lumbar canal stenosis.  
AUTHOR: Ciocon J O; Galindo-Ciocon D; Amaranath L; Galindo D  
CORPORATE SOURCE: Department of Internal Medicine/Geriatrics, Cleveland Clinic Florida, Fort Lauderdale 33309-1743.  
SOURCE: JOURNAL OF THE AMERICAN GERIATRICS SOCIETY, (1994 Jun) 42 (6) 593-6.  
PUB. COUNTRY: United States  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199407  
ENTRY DATE: Entered STN: 19940714  
Last Updated on STN: 19940714  
Entered Medline: 19940707

AB OBJECTIVE: To determine the efficacy of caudal epidural blocks (CEB) in relieving pain and the duration of pain relief with CEB in elderly patients suffering from degenerative lumbar canal stenosis (LCS). DESIGN: This study was a descriptive, prospective study with a 10-month follow-up. PARTICIPANTS AND SETTING: Thirty patients, 76 +/- 6.7 years of age, with leg discomfort with or without back pain and with LCS documented by magnetic resonance imaging (MRI) within 1 year of the study, were recruited from the outpatient clinic of the Cleveland Clinic Florida. None of the subjects had received CEB or surgery for their leg discomfort and none had relief of pain by analgesics alone. MEASUREMENTS AND INTERVENTIONS: Subjects received a total of three doses of 0.5% Xylocaine with 80 mg Depo-Medrol into the caudal epidural space through the sacral hiatus at weekly intervals. The Roland 5-point pain rating scale was utilized before and at 2-month intervals up to 10 months after the CEB was administered. MRI was used to identify the degree of LCS. RESULTS: The degree of LCS on admission was moderate in 66.7% (n = 20) of the patients, mild in 23.3% (n = 7), and severe in the remaining 10% (n = 3). Patients had LCS involving 2.4 +/- 0.49 lumbar vertebrae. The degree of LCS is directly correlated with the pain level before CEB. After CEB, the pain level changed from 3.43 +/- 0.82 to 1.5 +/- 0.86 (P < 0.0000), with a significant relief of pain up to 10 months (the end of observation). The duration of pain relief ranged from 4 to 10 months (P < 0.0001). CONCLUSION: CEB offers significant pain relief and appears to be a reasonable therapeutic option among elderly patients with LCS. This alternative seems particularly important among patients with poor response to drug therapy and who are either poor surgical risks or who have refused surgery.

L25 ANSWER 27 OF 36 MEDLINE  
ACCESSION NUMBER: 77024758 MEDLINE  
DOCUMENT NUMBER: 77024758 PubMed ID: 1234041  
TITLE: Aseptic meningitis as a complication of scinticysternography utilizing 111Indium-dtpa.  
AUTHOR: Forster G; Sacks S; Christoff N  
SOURCE: CLINICAL NEUROLOGY AND NEUROSURGERY, (1975) 78 (4) 289-92.  
PUB. COUNTRY: Netherlands  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 197701  
ENTRY DATE: Entered STN: 19900313  
Last Updated on STN: 19990129  
Entered Medline: 19770103

AB The intrathecal administration of numerous substances has been known to cause arachnoiditic as well as aseptic meningitic reactions. Pleocytosis and increased protein in the CSF are well known findings following administration of air or myelographic dyes. This has also been observed with antibiotics. Even intrathecal steroids (e.g. depo-medrol) have been implicated in aseptic meningitic reactions. Despite the wide variety of causative agents, only a small percentage of patients develop clinical manifestations of aseptic meningitis. Are these reactions then caused by specific auto-immune type

responses, or are they directly related to local irritants in each case, or a combination of both factors?

L25 ANSWER 28 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS  
ACCESSION NUMBER: 1983:159837 BIOSIS  
DOCUMENT NUMBER: BA75:9837  
TITLE: ACUPUNCTURE TREATMENT OF IATROGENIC CUSHINGS SYNDROME.  
AUTHOR(S): CHEN G S  
CORPORATE SOURCE: ACUPUNCTURE CENTER, 3245 LORNA ROAD, HOOVER, ALABAMA 35216.  
SOURCE: AM J ACUPUNCT, (1982) 10 (2), 147-154.  
CODEN: AJAPB9.  
FILE SEGMENT: BA; OLD  
LANGUAGE: English

AB A 45-year-old white female developed iatrogenic Cushing's syndrome after 5 lumbar epidural blocks with Depo-Medrol [methylprednisolone acetate] for backache. Acupuncture treatments gave her complete relief of pain for the 1st time in 3 years. All the other side effects caused by nerve blocks, e.g., excessive perspiration, hand tremor, bed wetting and depression responded to the treatments favorably. The adrenal gland test showed 80% normal value, 8 days after the 1st treatment and adrenal gland function became normal after 9 treatments. A follow-up study for 5.5 yr showed that the back pain was almost completely gone and all functions were normal. The rapid relief of her pain and normalization of the plasma cortisone level may be the result of acupuncture-stimulated release of ACTH and .beta.-endorphin simultaneously from the pituitary gland.

L25 ANSWER 29 OF 36 MEDLINE  
ACCESSION NUMBER: 92228108 MEDLINE  
DOCUMENT NUMBER: 92228108 PubMed ID: 1808526  
TITLE: [Epidural injections of steroids in the treatment of patients with chronic sciatica in discopathy]. Leczenie sterydowymi ostrzyknieciami nadoponowymi chorych z przewlekla rwa kulszowa w przebiegu dyskopatii.  
AUTHOR: Popiolek A; Domanik A; Mazurkiewicz G  
CORPORATE SOURCE: Oddzialu Neurologii Wojewodzkiego Szpitala Specjalistycznego.  
SOURCE: NEUROLOGIA I NEUROCHIRURGIA POLSKA, (1991 Sep-Oct) 25 (5) 640-6.  
PUB. COUNTRY: Journal code: NYF; 0101265. ISSN: 0028-3843.  
Poland  
(CLINICAL TRIAL)  
(CONTROLLED CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: Polish  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199205  
ENTRY DATE: Entered STN: 19920607  
Last Updated on STN: 19970203  
Entered Medline: 19920521

AB The authors tried to assess the effectiveness of the treatment with epidural steroid injections in cases with lumbar discopathy and chronic ischialgia++. Thirty patients were given one or two injections of Depo-Medrol or Polcortolon with added bupivacaine++ into the epidural space. The same number of patients were treated without such injections. Control examinations after 21 days showed greater and earlier improvement after Depo-Medrol . The results of Polcortolon were less evident. No side effects were observed.

L25 ANSWER 30 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS  
ACCESSION NUMBER: 1995:458655 BIOSIS  
DOCUMENT NUMBER: PREV199598472955  
TITLE: Treatment of primary and secondary fibromyalgia with local corticosteroids infiltrations.  
AUTHOR(S): Samborski, Włodzimierz; Kolczewska, Aleksandra; Lacki, Jan K.  
CORPORATE SOURCE: Klin. Reumatol. Akad. Med., Poznań Poland  
SOURCE: Reumatologia (Warsaw), (1994) Vol. 32, No. 4, pp. 409-413.  
ISSN: 0034-6233.  
DOCUMENT TYPE: Article  
LANGUAGE: Polish  
SUMMARY LANGUAGE: Polish; English  
AB Twenty five patients were divided into two group: 16 with primary and 9

with secondary fibromyalgia (7 with RA and 2 with ankylosing spondylitis). In all patients the local corticosteroids infiltrations with 2 times 20 mg Depo-Medrol + lignocaine in musculus supraspinatus regions were given. Before and 5 to 7 days after treatment the pain, stiffness, fatigue, vegetative and functional symptoms assessment with visual analogue scale as well as dolorimetry of 18 ACR tender points were performed. In patients with primary and secondary fibromyalgia statistic significant improvement in pain, stiffness and sleep disturbances was observed. Moreover the patients have less complaints in fatigue and other vegetative and functional symptoms. Before and after therapy there were no significant improvement in results of dolorimetric measurements in both groups. This study confirms our impression that corticosteroids can be effective therapy in fibromyalgia.

L25 ANSWER 31 OF 36 MEDLINE

ACCESSION NUMBER: 97067498 MEDLINE

DOCUMENT NUMBER: 97067498 PubMed ID: 8965975

TITLE: [Continuous epidural blockade as a method of treatment of low back pain syndrome in the course of disk pathology. Introductory research].

Ciągła zewnatrzoponowa blokada przeciwbolowa jako metoda leczenia bólu ledzwiowo-krzyzowego w przebiegu dyskopatii. Doniesienie wstępne.

AUTHOR: Wolny T; Ligaj H; Czarnacki J

CORPORATE SOURCE: Oddziału Neurologii Szpitala MSW w Lublinie.

SOURCE: NEUROLOGIA I NEUROCHIRURGIA POLSKA, (1996 May-Jun) 30 (3) 409-18.

JOURNAL CODE: NYF; 0101265. ISSN: 0028-3843.

PUB. COUNTRY: Poland

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: Polish

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199612

ENTRY DATE: Entered STN: 19970128

Last Updated on STN: 19970128

Entered Medline: 19961224

AB The purpose of this study is to present several years experiences in using of epidural analgetic blockade in patients with a substantial exacerbation of radicular pain syndrome in the course of discopathy resistant to traditional treatment. The observation of 61 non-surgical patients, who were given epidurally an analgetic (Bupivacainum hydrochloricum or Morphinum hydrochloricum) and a steroid antiphlogistic (Depo-Medrol) simultaneously, using a stationary catheter, confirms the efficacy of the method. Taking advantages of local analgesia in order to break the pain arc, the possibility of sustaining it for an extended period of time, as well as its local antiphlogistic activity, even while using minimal doses of the drugs, show evident therapeutic effects.

L25 ANSWER 32 OF 36 MEDLINE

ACCESSION NUMBER: 88045955 MEDLINE

DOCUMENT NUMBER: 88045955 PubMed ID: 2960132

TITLE: Epidural application of cortico-steroids in low-back pain and sciatica.

AUTHOR: Andersen K H; Mosdal C

CORPORATE SOURCE: University Clinic of Neurosurgery, Rigshospitalet, Copenhagen, Denmark.

SOURCE: ACTA NEUROCHIRURGICA, (1987) 87 (1-2) 52-3.

JOURNAL CODE: 19C; 0151000. ISSN: 0001-6268.

PUB. COUNTRY: Austria

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198711

ENTRY DATE: Entered STN: 19900305

Last Updated on STN: 19900305

Entered Medline: 19871123

AB Seven women and nine men, aged 27-59 years (mean 45), with lumbar pain and sciatica had epidural blocks once with 80 mg of depo-medrol and lidocaine in individual doses. All had static and kinetic lumbar pain up to 16 years and all but four also pain radiating to the lower limbs. Radiculography was "negative" in all patients, but three exhibited minor neurological abnormalities. Five patients had had a lumbar

hemilaminectomy previously. In case of segmental pain in the lower limbs the appropriate level was used, in all other patients injection was done in L3-4 interspace. By means of a visual analogous scale 10 patients (62%) stated relief of half the pain the following day. One month later only 7 patients (43%) stated relief of one third of the pain. Only one patient benefited ultimately (after 6 months). In the remainder complaints were unaffected by the epidural injection. These discouraging results are not compatible with other reports, and a planned double-blind randomized investigation was abandoned. For the present category of patients (long-lasting complaints, previous "disc" operations) we found the epidural steroid injection useless.

L25 ANSWER 33 OF 36 MEDLINE

ACCESSION NUMBER: 96371100 MEDLINE  
DOCUMENT NUMBER: 96371100 PubMed ID: 8774935  
TITLE: Painless lumbar surgery: morphine nerve paste.  
AUTHOR: Needham C W  
CORPORATE SOURCE: Neurosurgery, Yale University College of Medicine, New Haven, USA.  
SOURCE: CONNECTICUT MEDICINE, (1996 Mar) 60 (3) 141-3.  
Journal code: DQF; 0372745. ISSN: 0010-6178.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199612  
ENTRY DATE: Entered STN: 19970128  
Last Updated on STN: 19970128  
Entered Medline: 19961206

AB The intraoperative application of morphine as a nerve paste to the exposed dura and nerve roots in lumbar cases provides immediate, dramatic, and long-term relief in postoperative pain. Fifty-four patients with intractable sciatica due to ruptured discs or lumbar stenosis were treated. After decompression of the involved nerve root(s), a paste composed of Avitene, Depo-medrol, Amicar, and Duramorph is applied to the local epidural space. No catheter is required. The Duramorph does not need to be replenished. The use of the nerve paste reduces hospital stay to a minimum, reduces the stress of surgery, and has not produced undesirable side-effects.

L25 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:152059 CAPLUS  
DOCUMENT NUMBER: 112:152059  
TITLE: Methylprednisolone acetate does not cause inflammatory changes in the epidural space  
AUTHOR(S): Cicala, Roger S.; Turner, Robert; Moran, Edward; Henley, Russell; Wong, Richard; Evans, James  
CORPORATE SOURCE: Dep. Anesthesiol., Univ. Tennessee, Memphis, TN, 38163, USA  
SOURCE: Anesthesiology (1990), 72(3), 556-8  
CODEN: ANESAV; ISSN: 0003-3022  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB To examine the possible adverse effects that epidural injection of depot corticosteroid preps. may have on meningeal membranes and nervous tissue, healthy adult white rabbits received 0.3 mL/kg epidural injections of either lactated Ringer's soln. (neg. control group), 1% lidocaine contg. methylprednisolone acetate (study group), or normal saline contg. talc (pos. control group). Animals were killed either 4 or 10 days after injection and stained sections of the spinal cord and meningeal membranes were examd. by light microscopy. In all animals that received either lactated Ringer's soln. or lidocaine with methylprednisolone acetate, microscopic examm. of specimens taken from the L5-L6 interspace revealed no white cell infiltrates and no fibroblastic activity. All animals that received epidural injections of normal saline contg. talc had marked infiltration of tissue macrophages in the epidural space. There was no thickening of the meningeal membranes or nerve roots in any animal. The complete lack of inflammatory changes and meningeal thickening demonstrated in this study helps to confirm the safety of methylprednisolone acetate when injected into the epidural space.

IT 53-36-1, Depo-Medrol

RL: BIOL (Biological study)  
(inflammation from epidural injection of)

L25 ANSWER 35 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS  
ACCESSION NUMBER: 1985:5267 BIOSIS  
DOCUMENT NUMBER: BR28:5267  
TITLE: MODEST REDUCTION OF OLIGOCLONAL BANDING IN MULTIPLE  
SCLEROSIS WITH ACTH AND CORTICOSTEROIDS.  
AUTHOR(S): BAUMBELFNER R W; STAUGAITIS S M; TOURTELLOTTE W W; SHAPSHAK  
P; CHUANG E  
CORPORATE SOURCE: LOS ANGELES, CALIF.  
SOURCE: 109TH ANNUAL MEETING OF THE AMERICAN NEUROLOGICAL  
ASSOCIATION, BALTIMORE, MD., USA, OCT. 7-10, 1984. ANN  
NEUROL, (1984) 16 (1), 142.  
CODEN: ANNED3. ISSN: 0364-5134.

DOCUMENT TYPE: Conference  
FILE SEGMENT: BR; OLD  
LANGUAGE: English

IT Miscellaneous Descriptors

ABSTRACT HUMAN BLOOD-BRAIN BARRIER CEREBROSPINAL FLUID SERUM  
PREDNISONE SOLUMEDROL DEPO MEDROL DEXAMETHASONE  
HYDROCORTISON E HORMONE-DRUG ANTIINFLAMMATORY-DRUG IMMUNOGLOBULIN G  
CENTRAL NERVOUS SYSTEM INFLAMMATION

L25 ANSWER 36 OF 36 BIOSIS COPYRIGHT 2001 BIOSIS  
ACCESSION NUMBER: 1981:62579 BIOSIS  
DOCUMENT NUMBER: BR20:62579  
TITLE: INTRA SPINAL STEROID THERAPY.  
AUTHOR(S): BERNAT J L  
CORPORATE SOURCE: DIV. NEUROL., DEP. MED., DARTMOUTH MED. SCH., HANOVER, NH  
03755.  
SOURCE: Neurology, (1981) 31 (2), 168-171.  
CODEN: NEURAI. ISSN: 0028-3878.

FILE SEGMENT: BR; OLD  
LANGUAGE: English

IT Miscellaneous Descriptors

REVIEW HUMAN DOG SUBARACHNOID SPACE EPIDURAL SPACE  
DEPO-MEDROL HORMONE-DRUG COMPLICATION LUMBAR  
RADICULOPATHY HERNIATED DISC ARACHNOIDITIS HEAD ACHE MULTIPLE SCLEROSIS

ACCESSION NUMBER: 93163885 MEDLINE  
DOCUMENT NUMBER: 93163885 PubMed ID: 8433138  
TITLE: The perioperative use of corticosteroids and bupivacaine in the management of lumbar disc disease.  
AUTHOR: Glasser R S; Knego R S; Delashaw J B; Fessler R G  
CORPORATE SOURCE: Department of Neurosurgery, University of Florida, Gainesville.  
SOURCE: JOURNAL OF NEUROSURGERY, (1993 Mar) 78 (3) 383-7.  
Journal code: JD3; 0253357. ISSN: 0022-3085.  
PUB. COUNTRY: United States  
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)  
English  
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals  
ENTRY MONTH: 199303  
ENTRY DATE: Entered STN: 19930402  
Last Updated on STN: 19930402  
Entered Medline: 19930317

AB The introduction of microdiscectomy to lumbar spine surgery has resulted in a significant decrease in postoperative pain and length of hospital stay. Intraoperative application of long-acting local anesthetic agents has been used for many general and neurosurgical procedures for the management of postoperative pain. In addition, many surgeons routinely use intraoperative corticosteroids during lumbar discectomy to reduce traumatic nerve root inflammation. However, the efficacy of intraoperative long-acting local anesthetic agents and corticosteroids for reduction of postoperative discomfort has not been reported for lumbar discectomy. This study evaluated 32 patients at a university-based Veterans Administration hospital undergoing lumbar microdiscectomy. All 32 patients presented with radicular symptoms and had radiographic confirmation of a herniated nucleus pulposus. These patients were divided into three groups. Group 1 (12 patients) received 160 mg intramuscular Depo-Medrol (methylprednisolone acetate) and 250 mg intravenous Solu-Medrol (methyl-prednisolone sodium succinate) at the start of the operation. A macerated fat graft soaked in 80 mg Depo-Medrol was placed over the affected nerve root following discectomy. In addition, 30 ml of 0.25% bupivacaine was infiltrated into the paraspinal musculature at skin incision and during closure. Group 2 (10 patients) received 30 ml of 0.25% bupivacaine infiltrated into the paraspinal musculature at skin incision and at closure. In this group of patients, a saline-soaked fat graft was placed over the affected nerve root. Group 3 (10 patients) acted as a control group, undergoing lumbar microdiscectomy without corticosteroids or bupivacaine. Patients receiving bupivacaine and corticosteroids (Group 1) had a statistically significantly shorter hospital stay (1.4 days) compared to the control group (4.0 days) ( $p = 0.0004$ , Mann-Whitney U-test). Patients in Group 1 required less postoperative narcotic analgesia than the other groups. Finally, a larger percentage of patients in Group 1 reported complete relief of back and radicular pain on postoperative Day 1 compared to other groups. Postoperative complications and functional outcome were not different between the groups. These results indicate that the combination of long-acting anesthetic agents and corticosteroids can reduce postoperative discomfort and subsequently the length of postoperative hospital stay.